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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/001,235	11/13/2001	S. Thomas Autrey	23-59243	9274
759	90 03/20/2003			
KLARQUIST SPARKMAN, LLP			EXAMINER	
One World Trade Center Suite 1600			ROSENBERGER, RICHARD A	
121 S.W. Salmon Street Portland, OR 97204			ART UNIT	PAPER NUMBER
i ornand, OK 3	1204		2877	<u>-</u>

Please find below and/or attached an Office communication concerning this application or proceeding.

40	Application No.	Applicant(s)				
. Office Action Summary	10/001,235	AUTREY ET AL.				
Office Action Summary	Examiner	Art Unit				
The MAN INC DATE of this accomplisation	Richard A Rosenberger	2877				
The MAILING DATE of this communication app ars on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on	_·					
2a) ☐ This action is FINAL . 2b) ☑ Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) Claim(s) 1-51 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-51</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action. 12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
a) ☐ All b) ☐ Some c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received.						
Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4. 	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)				

Application/Control Number: 10/001,235

Art Unit: 2877

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watanabe et al (US 4,436,428).

Watanabe shows, in figure 6 a photoacoustic spectroscopy sample array (1 × 2) comprising a substrate with well therein (at 57, 58) holding samples (64, 65) and at least one acoustic detector (76, 78) acoustically coupled to the sample array for receiving acoustic signals form the samples. Watanabe mentions that the samples may be illuminated either simultaneously or sequentially (column 5, lines 58-60).

In figures 12 and 13, discussed in column 1, lines 6-8 and 12-16, teaches having a sample contained within an "affinity mass" in such a photoacoustic arrangement. It would have been obvious to hold the sample of the embodiment of figure 6 of the reference with the porous structure discussed in figures 12 and 13 of the reference.

It would have been obvious to have a reflective layer behind the sample because it is known in the art that the response form the absorption on the light

beam is dependent upon the path length through the sample, and it is known that placing a reflective coating behind a sample can reflect light passing through the sample back into the sample, thus increasing the optical path length through the sample, and thus increasing the signal strength.

Watanabe et al uses a particular transducer to detect the generated acoustic waves. It would have been oblivious to use other known transducers; it is the detection of the acoustic waves, and not the particular transducer structure, which is functionally and operationally important.

While Watanabe et al shows a small (1×2) array, it would have been obvious to add more sample chambers to the embodiment of figure 6 of that reference.

- 3. Papers related to this application may be submitted to Group 2800 by facsimile transmission. The faxing of such papers must conform to the notice published in the Official Gazette, 1096 OG 30 (15 November 1989). The fax number is (703) 308-7722.
- Any inquiry concerning this communication or earlier communications from the examiner should be directed to R. A. Rosenberger whose telephone number is (703) 308-4804.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0956.

R. A. Rosenberger 17 March 2003

Richard Al Rosenberger

Primary Examiner